Clever Par-King

Park like a King

App Features

- Provides smart parking solution
- Providing real time data using overhead sensors.
- Saving Time
- Payment through the app

Requirement Analysis

Requirement

All potential system needs are gathered and outlined in a requirement specification document. The results of surveys and interviews were used to determine user demands, such as the ability to check the availability of parking spaces, reserve one, and make payments.

Design

The required specifications from the initial phase are examined, and the system design is created. This system design aids in determining the overall system architecture as well as the hardware and system requirements.

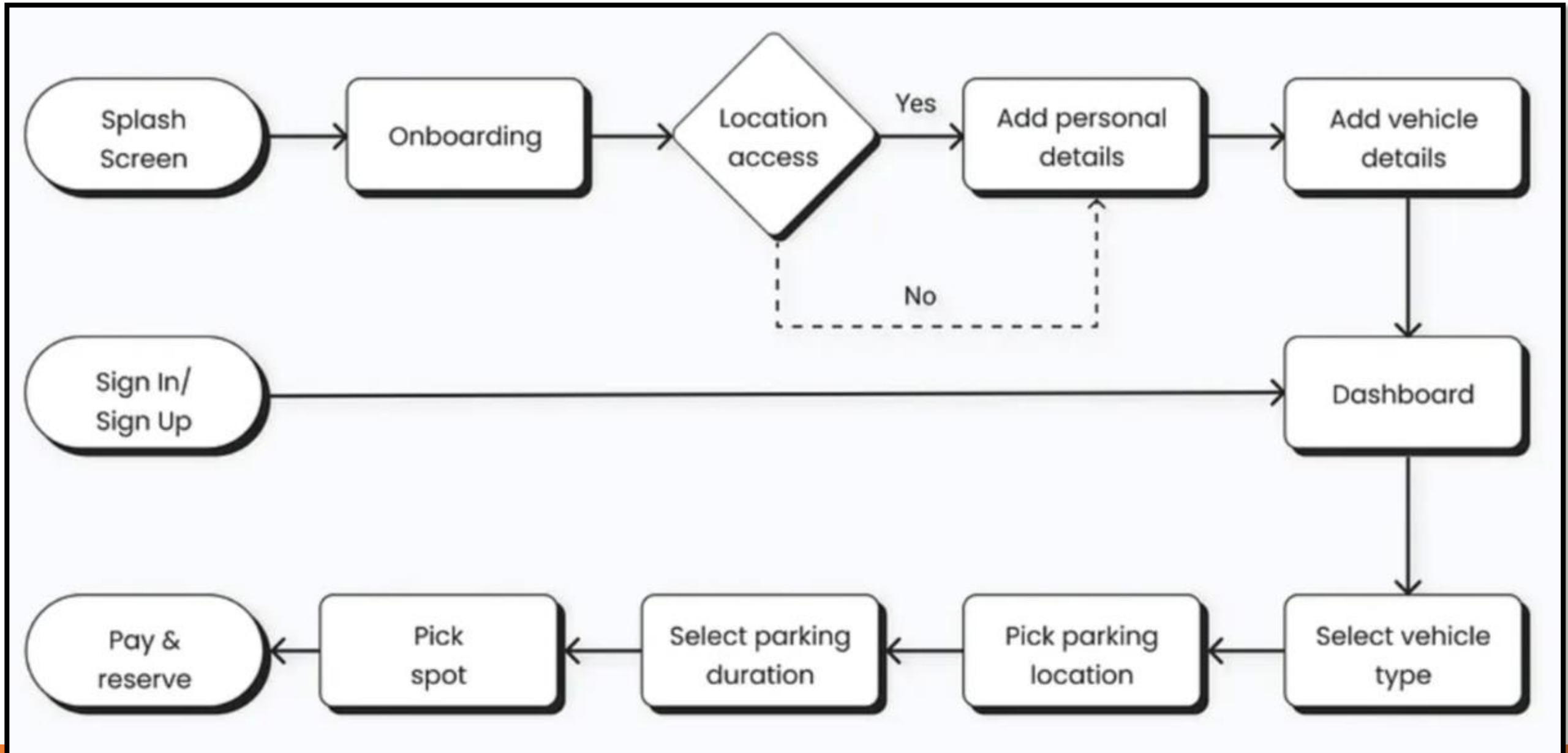
Coding and Unit Test

The system is initially built as small programs known as units, which are then incorporated into the following phase, using inputs from the system design. Unit testing was done in process for developing and evaluating each unit for functionality.

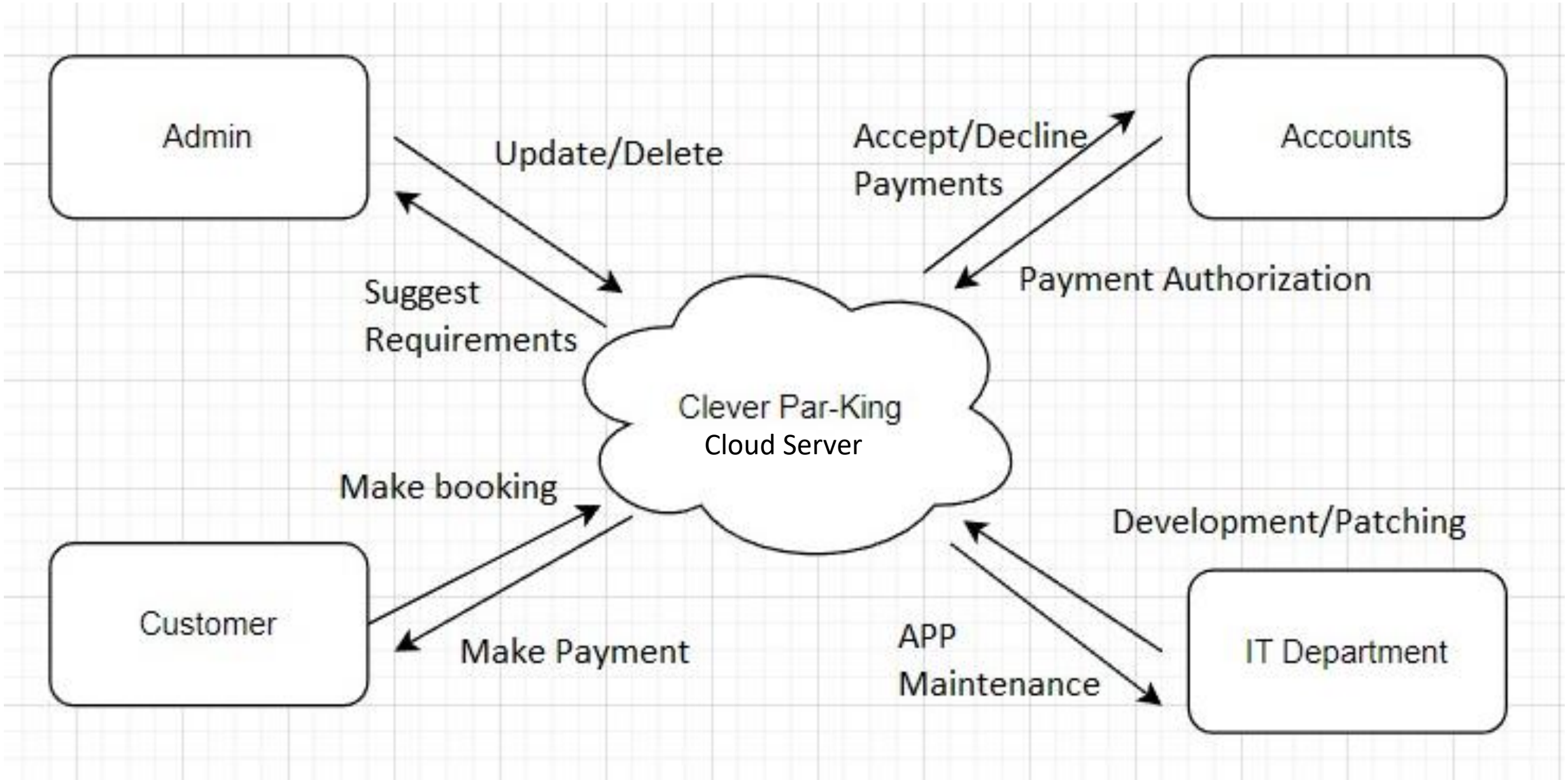
Analysis Data and Information Need

Data needed to make smart parking applications are parking capacity data, vehicle volume, and parking rates. While the information that needs to be generated is information about the amount of parking capacity available, how to place an order, and payment of parking.

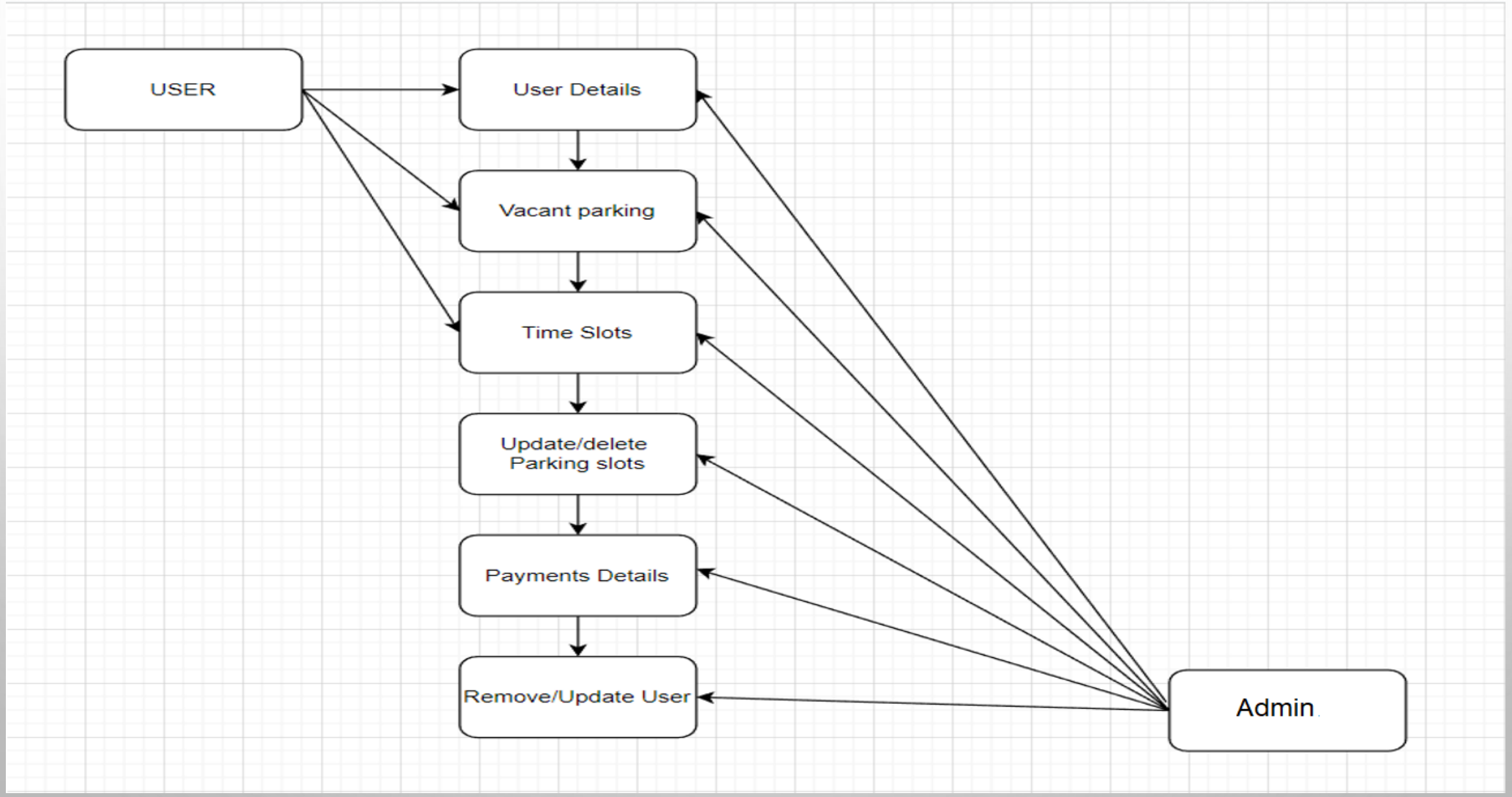
User Interface



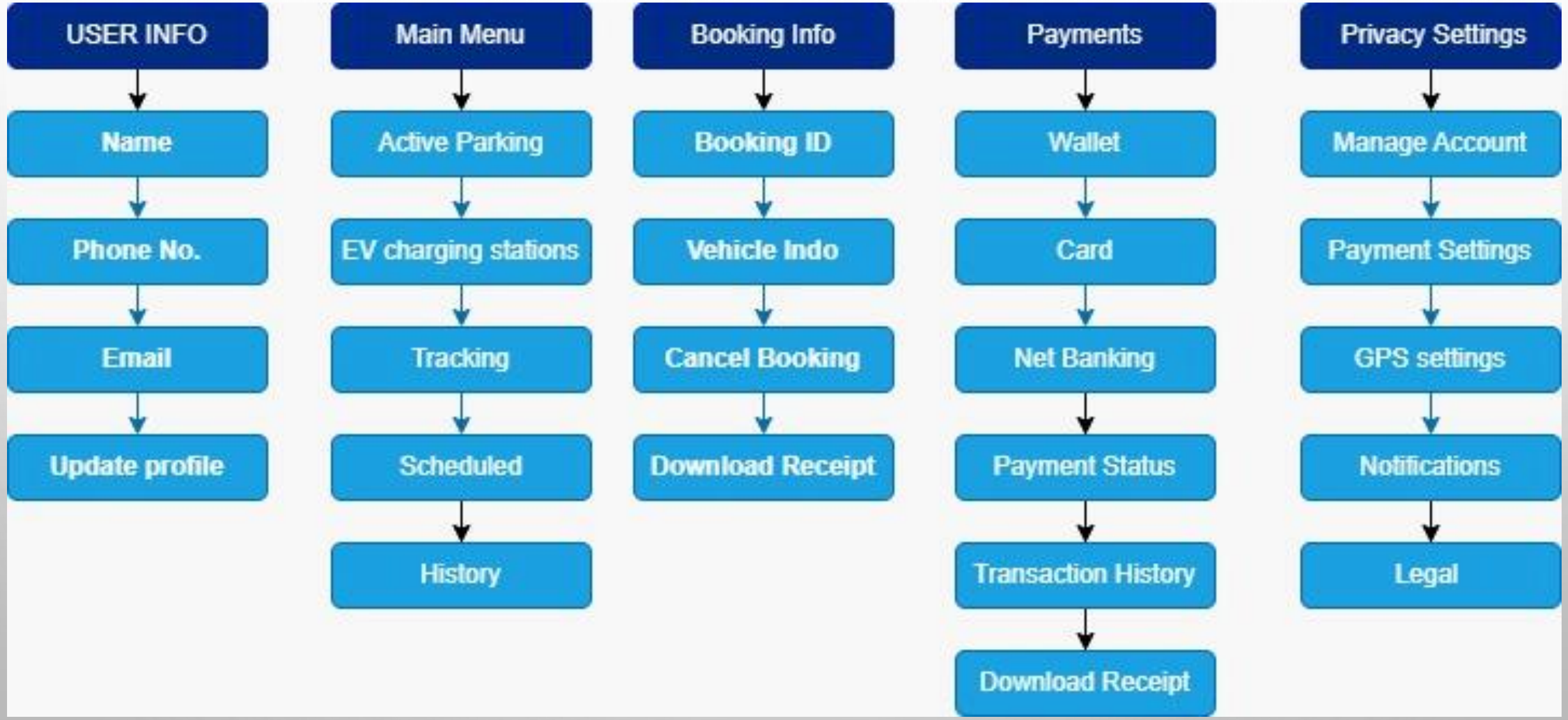
Backend Operations



USER CASE MODEL



Agile Epics and Stories



Agile Epics and User Stories

User research

We performed user interviews, previous surveys, and researches on parking issues to validate the problem, gain a deeper understanding of the problems experienced by the users in their everyday lives, and to foster user empathy.

We identified the main problems that users are having after conducting the research and analysing the data I gathered along the way. The following are the main issues, as reported by the users:

"I have a hard time finding parking close to where I want to go."

"Sometimes, i'm not sure if there's enough parking.“

"There have been times when I have lost track of where my car is parked in the crowded parking space."

Solution

- We created the Clever Park-King mobile app with the user's needs and business objectives in mind to create a seamless and hassle-free experience for everyone who struggles to find parking spots for their automobiles.
- In my mind's eye, a map that may be used to guide users to adjacent parking spots.
- I came up with ideas for the app's functionality before moving on to create the user flow and wireframes. These characteristics were present:

  - Choose the fastest path to the nearby parking lots to help you navigate.
  - Research parking costs and availability in advance.
  - Freedom to choose and reserve a parking space in advance.
  - Time slots can be extended
  - Pay digitally through cards, wallet transfer, Smart Stickers etc.
  - Find out the authorization status and operating hours of the neighbouring parking spaces.
  - Easily find the parked vehicle

Strategy

User Flow

We created the user flow, which outlines how the user will interact with the app and the processes necessary to reserve the first parking spot, based on the features we wanted to include in the app. We made sure that there were only a few simple steps that the users would be able to follow.

1.Onboarding

Simple but eye-catching interfaces that communicate the app's value proposition to users.

2. User Parking Flow

The displays that consumers will interface with for the following are listed below:

Look for or choose a parking spot close by.

Determine the cost and available parking spaces in advance.

Locate the parking space and choose the length of time to stay.

Pre-reserve a parking space,

Enter your arrival time, pay electronically, and take advantage of hassle-free parking.


Thank you